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## (57) Abstract:

PURPOSE: To easily measure the conch. of a substrate with an extremely small volume of liquid to be inspected and with good accuracy by forming a space part including a reaction layer on a substrate having an electrode system and the reaction layer.

CONSTITUTION; The substrate 1 and the respective members of a spacer 7 and cover 9 consisting of plastic plates are adhered and integrated to attain the relative positions shown by broken lines. Namely, the spacer 7 has about 300 µm thickness and is formed to the shape in which the central part is cut to a U shape of 2mm width and 7mm length. The end part of the cut part constitutes an introducing port 10 for a sample liquid when the spacer is integrated. The central part forms the space part 8. The cover has a hole of 2mm diameter which constitutes a discharge port 11 when integrated. The sample liquid is introduced from the port\_10 into the inside when the port 10 at the front end of the glucose sensor constituted in such a manner is brought into contact with the sample liquid, standard glucose liquid. The air in the space part 8 is rapidly discharged from the discharge port 11 at this time and the space part 8 is simultaneously filled with the sample liquid up to the level near the discharge port 11. The conon, of the substrate is thereby measured with the extremely small volume of the liquid to be inspected and with the good accuracy.

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